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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/485,170

01/14/2000

Suresh Venkatraman

MFCP.68209

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04/22/2004

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EXAMINER

HOANG, PHUONG N

ART UNIT

PAPER NUMBER

2126

DATE MAILED: 04/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/483,170

Applicant(s)

VENKATRAMAN ET AL.

Examiner

Phuong N. Hoang

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 55 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1 – 55 are pending for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

3. **Claims 1 and 17 are rejected under 35 U.S.C. 102(e) as being unpatentable by Utas, US patent no. 6,430,627.**
4. **As to claim 1**, Utas teaches a method in a computer system for sharing system resource data between two or more applications running as separate processes, the method comprising:
 - a. obtaining resource data from a source of system resources and storing a single shared copy of the resource data to be utilized by each of the two or more applications, wherein the single shared copy is configured to allow sharing in order to avoid duplication of resources (col. 2 lines 5 – 16 and col. 4 lines 1 – 32);
 - b. receiving one or more resource data requests from the applications (col. 2 lines 57 – 60 and col. 4 lines 5 – 32);

- c. processing the resource data requests by accessing and utilizing the single shared copy of the resource data (col. 2 lines 10 – 15 and col. 4 lines 30 – 32);
 - d. communicating the processed resource data to the respective applications (col. 2 lines 57 – 60 and col. 4 lines 5 – 32).
5. **As to claim 17**, Utas teaches a computer-readable medium having computer-executable instructions for performing the steps recited in claim 1 (instructions, col. 3 lines 46 – 50).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 2 – 16, 18 – 32, and 38 – 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Utas, US patent no. 6,430,627 in view of Khoyi, US patent 5,421,012.**

8. **As to claim 2**, Utas does not teach the step comprising of creating an instance of a central server and establishing a separate communications interface in the server for each application.

Khoyi teaches the step comprising of creating an instance of a central server and establishing a separate communications interface in the server for each application (RESPACK, col. 25. lines 56 – 65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Utas and Khoyi's because Khoyi's central server would provide communication links for each application accessing the resources.

9. **As to claim 3**, Utas modified by Khoyi teaches wherein the central server is a central font cache server (Utas; col. 2 lines 5 – 16 and col. 4 lines 1 – 32, and Khoyi; col. 11 lines 35 – 40 and col. 25 lines 56 – 65).

10. **As to claims 4 and 5**, Utas modified by Khoyi teaches the step of creating an instance of a central data store and storing the resource data in the central data store as a font cache store (Utas; col. 2 lines 5 – 16 and col. 4 lines 1 – 32, and Khoyi; col. 11 lines 35 – 40 and col. 25 lines 45 – 55).

11. **As to claims 6 and 7**, Khoyi teaches the step of wherein the processing step includes transferring at least a portion of the resource data requests from a central server to the data store (col. 25 lines 55 – 65 and col. 43 lines 29 – 35).

12. **As to claim 8**, Khoyi teaches the step of wherein the transferring at least a portion of the resource data includes utilizing a fast access array (array, col. 55 lines 52 – 60, and col. 66 lines 30 – 35).

13. **As to claims 9 - 12**, Khoyi teaches the step of refreshing the resource data includes receiving communications from the resource data source; and obtaining a new shared copy of the font resource data (col. 8 lines 49 – 50, col. 11 lines 35 – 40, col. 24 lines 42 – 55, and col. 39 lines 24 - 30).

14. **As to claim 13**, Khoyi teaches the step of wherein the resource data is graphics display interface font resource data (col. 11 lines 35 – 40).

15. **As to claims 14 and 15**, Khoyi teaches the step of wherein the applications are single document interface applications selected from a group consisting of a word processing application, a spreadsheet application and a database application (word, spreadsheet programs, col. 11 lines 45 – 50).

16. **As to claim 16**, Khoyi teaches the step of wherein the single document interface applications are created from a single software platform (one of ordinary skill in the art can recognize that word or spreadsheet programs all belong to a software platform).

17. **As to claim 18**, it is a method of claims 1 and 13. See the rejection for claims 1 and 13 above.

18. **As to claims 19 – 21**, see rejection for claims 9 – 12 above.

19. **As to claim 22**, Khoyi teaches the step comprising of communicating to the SDI applications commands to acquire the new copy of the GDI/font resource data (col. 39 lines 45 – 47).

20. **As to claims 23**, see rejection for claim 4 above.

21. **As to claim 24**, Khoyi teaches the step of wherein the step of receiving font data process requests includes establishing a separate communications interface for each SDI application (col. 11 lines 35 – 40 and col. 25 lines 55 – 65).

22. **As to claims 25 and 26**, Khoyi teaches the step of wherein the processing step includes transferring the font data requests to a central font cache store having stored

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thereto the shared copy of the GDI/font resource data (col. 11 lines 35 – 40, col. 25 lines 55 – 65, and col. 43 lines 29 – 35).

23. **As to claim 27**, see rejection for claim 8 above.

24. **As to claim 28**, Khoyi teaches the step of wherein the GDI/font resource data includes a system handle to a system font and at least one attribute of the system font (col. 26 lines 50 – 55).

25. **As to claims 29 – 31**, see rejection for claims 15 – 17 above.

26. **As to claim 32**, Utas teaches the step of an operating system and a central processor, the processor being operable to execute the steps recited in claim 30 (col. 3 lines 35 – 40).

27. **As to claim 38**, it is the software claim of claim 1. See rejection for claim 1 above.

28. **As to claims 39 – 53**, see rejection for claims 2 – 16 above.

29. **As to claim 54**, see rejection for claim 32 above.

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30. **As to claim 55**, it is the method of claims 1(a) and 1(c) and 2. See rejection for claims 1 (a) and 1(c), and 2 for cross-process server.

31. **Claims 33 – 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khoyi, US patent 5,421,012 in view of Utas, US patent no. 6,430,627.**

32. **As to claim 33**, Khoyi teaches a cross-process resource sharing system disposed between an operating system and multiple client applications, the system comprising the steps of:

central data store (block, col. 25 lines 45 – 55) containing shared resource data obtained from the operating system the shared resource data configured to be shared by at least one or more client applications (object managers, user objects, col. 10 lines 3 – 19, col. 25 lines 20 – 30 and fig. 9);

central data server (respack, col. 25 lines 55 – 65) for maintaining and managing the shared resource data and for establishing a communications link between the central data store and any of the multiple client applications, wherein the central data store is adapted to communicate at least a portion of the shared resource data to any of the multiple client applications over the communications link (appack, col. 11 line 67 – col. 13 line 30) in response to resource data requests from any of the requesting multiple client applications; and

an update communications server (appack, col. 11 line 67 – col. 13 line 30) connected to the central data server, the update communications server being further connected to a an operating system resource source to provide a communications link between the central data server and the operating system resource source in order to acquire the process resource data from the operating system resource source.

Khoyi does not explicitly teach the shared resources are shared by multiple applications.

Utas teaches the shared resources are shared by multiple applications (col. 2 lines 5 – 16 and col. 4 lines 1 – 32);

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Khoyi and Utas's because Utas's resources sharing by multiple applications would reduce the memory and cost for the system, and also provide more flexibility for application programs accessing to the resources.

33. **As to claim 34**, Khoyi teaches the step of wherein the resource data is graphics display interface font resource data (col. 11 lines 35 – 40).

34. **As to claim 35**, Khoyi modified by Utas teaches central server is a central font cache server (Khoyi; col. 11 lines 35 – 40 and col. 25 lines 56 – 65 and Utas; col. 2 lines 5 – 16 and col. 4 lines 1 – 32).

35. **As to claim 36**, Khoyi modified by Utas teaches the step of the central data store is a font cache store (Utas; col. 2 lines 5 – 16 and col. 4 lines 1 – 32, and Khoyi; col. 11 lines 35 – 40 and col. 25 lines 45 – 55).

36. **As to claim 37**, Khoyi modified by Utas teaches the update communication server is a font cache update window (Khoyi; col. 11 line 67 – col. 13 line 30, and Utas; col. 2 lines 5 – 16 and col. 4 lines 1 – 32).

Response to Arguments

37. Applicant's arguments, filed on 1/20/04, have been considered but are moot in view of the new ground(s) of rejection.


Conclusion

38. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong N. Hoang whose telephone number is (703) 605-4239. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703)305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ph
April 19, 2004



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